(https://linuxacademy.com/cp)   jose.kuzhivelil@capgemini.com 👤

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Navigation

Congratulations, you have completed this quiz!

Courses / AWS Certified Solutions Architect - Associate (Old exam) (/cp/modules/view/id/119)

Quiz Results: EC2 Quiz

Pass

100% Correct

1. **1)** What command should you run if you want to view an instance's user data?

   Correct

   ## Correct answer

   curl http://169.254.169.254/latest/user-data

   ## Explanation

   You must use the curl command and have the proper IP address in the command.

2. **2)** If you are designing an application that requires fast (10Gbps), low-latency connections between EC2 instances, what EC2 feature should you use?

   Correct

   ## Correct answer

   Placement groups

   ## Explanation

Placement groups are a clustering of EC2 instances in one Availability Zone with fast (10Gbps) connections between them. This service is used for applications that need extremely low-latency connections between instances.

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3. **3)** IOPS are measured in what size "chunks?"

   Correct

   ## Correct answer

   256 KB

   ## Explanation

   IOPS are measures in chucks of 256KB or smaller.

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4. **4)** What happens to data stored on an instance store volume when an EC2 instance is stopped or shut down?

   Correct

   ## Correct answer

   The data will be deleted

   ## Explanation

   Since instance store volumes are ephemeral, data will NOT be persistent and WILL be deleted is the instance is stopped or shut down.

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5. **5)** What best describes the characteristics of EBS volumes?

   Correct

   ## Correct answer

   They are persistent and can live past the lifetime of the instance

   ## Explanation

   EBS volumes are network-attached, persistent storage volumes. They are designed to live past the life of an EC2 instance and be attached/detached at will.

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6. **6)** An Amazon Machine Image (AMI) is what details the virtual hardware specifications of the EC2 instance.

   Correct

   ## Correct answer

   False

Explanation

AMIs are what dictate the instance's operating system and other software settings. It is the "instance type" which determines the instances virtual hardware.

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7. **7)** Your company has been thinking about moving its networking resources over to AWS. Your boss is particularly interested in the AWS shared responsibility model, as it will allow him to offload some traditional responsibilities to AWS. He says that he is happy that AWS will now handle the following responsibilities listed below. However, you know that he is wrong and that AWS does not handle all of them as part of the shared responsibility model. Which of the following four (4) items do you need to tell him are not handled by AWS?

Correct

Correct answer

Security groups, Applying an SSL Certificate to an ELB, Installation of custom firewall software

Explanation

In the shared responsibility model, AWS is responsible for DDOS protection, port scanning protection, and ingress network filtering. You are responsible for managing security groups, applying an SSL certificate to an ELB, and the installation of custom firewall software.

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8. **8)** What best describes how EBS snapshots work?

Correct

Correct answer

Snapshots are incremental in nature and are stored in S3

Explanation

Only a volume's first snapshot will store the entire volume. Each subsequent snapshot will only store the changes from the last snapshot.

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9. **9)** You are a Solutions Architect and your company is interested in moving some workload to AWS. You are concerned that it will be very challenging to manage and control all of the EC2 servers that will need to be deployed – specifically, how to ensure that fellow employees are installing the company approved operating system version with the right libraries and runtimes and with the proper configuration settings. What EC2 feature will best allow you to control this?

Correct

Correct answer

You can have a company policy stipulating that any new instance must be launched using a custom Amazon Machine Image (AMI), which specifies exactly which software and associated settings you want to have installed on every new EC2 instance.

Explanation

AMIs are what dictate the instance's operating system and other software settings. You can customize the instance that you launch from a public AMI and then save that configuration as a custom AMI. Your company policy can then stipulate that all EC2 instances must be launched using only your custom AMI.

Further Reading

https://linuxacademy.com/cp/courses/lesson/course/1002/lesson/3/module/119 (https://linuxacademy.com/cp/courses/lesson/course/1002/lesson/3/module/119)

10. **10)** You work in the IT department of a Fortune 500 financial services company. Your company has hundreds of servers and also uses VMware for certain applications. You happened to run into one of the senior directors in the hallway today, and she told you that she had just read an article on cloud computing that mentioned EC2 instances and was wondering what that was. What would be the best analogy to use in explaining to her what EC2 is?

Correct

Correct answer

EC2 is analogous to our internal VMware environment and provides companies with virtual servers that run in the cloud

Explanation

EC2 is AWS's virtual server service. Since these are "virtual" servers they mimic (or similarly resemble) on-premises servers running VMware.

Further Reading

https://linuxacademy.com/cp/courses/lesson/course/1002/lesson/1/module/119 (https://linuxacademy.com/cp/courses/lesson/course/1002/lesson/1/module/119)

11. **11)** A key pair is a combination of a public and private key that is used for authenticating users when logging into an EC2 instance.

Correct

Correct answer

True

Explanation

The public key pair is stored on the instance, and the private key is given to you when the instance is created.

12. **12)** If you are running an application in a production environment and must add a new EBS volume with data from a snapshot, what should you do to avoid degraded performance during the volume's first use?

Correct

Correct answer

Initialize the data by readying each storage block on the volume

Explanation

Volumes created from an EBS snapshot must be initialized. Initializing occurs the first time a storage block on the volume is read, and the performance impact can be impacted by up to 50%. You can avoid this impact in production environments by manually reading all the blocks.

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13. **13)** If you are running a legacy application that has hard-coded static IP addresses and is running on an EC2 instance; what is the best failover solution that allows you to keep the same IP address on a new instance?

Correct

Correct answer

Elastic IP addresses

Explanation

Elastic IP addresses (EIPs) are designed to be attached/detached and moved from one EC2 instance to another. They are a great solution for keeping a static IP address and moving it to a new instance if the current instance fails. This will reduce or eliminate any downtime uses may experience.

Retake Quiz (/cp/quiz/start/quiz/252/module/119)